IND011-13

Facility name: MOBILE OIL CORP.

Location: 3821 INDIANAPOLIS BLVD, E CHGO., IL 46327

EPA Region: 05

Person(s) in charge of the facility:

Name of Reviewer: LARRY LUMEH Date: 01-23-86

General description of the facility:

(For example: landfill, surface impoundment, pile, container, types of hazardous substances, location of the facility; contamination route of major concern; types of information needed for rating, agency action, etc.)

THIS SITE IN THE INDUSTRIAL PARK OF N.E. INDIANA. IT WOULD BE EXTREMELY DIFFICULT TO ATTRIBUTE POLLUTION TO SPECIFIC SITES EVEN THOUGH PROBLEMS EXIST. BOTH SURFACE & GROUNDWATER POLLUTION IS POSSIBLE.

Scores: S_M = (S_{gw} = S_{sw} = S_a =)

S_{FE} =

S_{DC} =

FIGURE 1
HRS COVER SHEET

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	45	1	(45)	45	3.1
If observed release is given a score of 45, proceed to line 4 If observed release is given a score of 0, proceed to line 2.						
2 Route Characteristics						3.2
Depth to Aquifer of Concern	0 (1) 2 3		2		6	2
Net Precipitation	0 1 (2) 3		1		3	2
Permeability of the Unsaturated Zone	0 1 (2) 3		1		3	2
Physical State	0 1 2 (3)		1		3	3
Total Route Characteristics Score					15	(9)
3 Containment	0 1 (2) 3		1		3	3.3 (2)
4 Waste Characteristics						3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)		1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 (6) 7 8		1	6	8	
Total Waste Characteristics Score				(24)	26	(24)
5 Targets						3.5
Ground Water Use	(0) 1 2 3		3	0	9	
Distance to Nearest Well/Population Served	0 4 (6) 8 10 12 16 18 20 24 30 32 35 40		1	6	40	
Total Targets Score				(6)	49	(6)
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				6480	57,330	2592
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} =	11.30		4.52

FIGURE 2
GROUND WATER ROUTE WORK SHEET

OR

W/R

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	45	1	(45)	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.						
2 Route Characteristics						4.2
Facility Slope and Intervening Terrain	(0) 1 2 3		1		3	0
1-yr. 24-hr. Rainfall	0 1 (2) 3		1		3	2
Distance to Nearest Surface Water	0 1 2 (3)		2		6	6
Physical State	0 1 2 (3)		1		3	3
Total Route Characteristics Score					15	(11)
3 Containment	0 1 (2) 3		1		3	4.3 (2)
4 Waste Characteristics						4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)		1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 (6) 7 8		1	6	8	
Total Waste Characteristics Score				(24)	26	(24)
5 Targets						4.5
Surface Water Use	0 1 2 (3)		3	9	9	
Distance to a Sensitive Environment	(0) 1 2 3		2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40		1	0*	40	
Total Targets Score				(9)	55	(9)
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				9720	64,350	4752
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} =	15.10		7.38

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

* See Reverse side of sheet.

	S		S^2	
	MR	OR	MR	OR
Groundwater Route Score (S_{gw})	4.52	11.30	20.43	127.69
Surface Water Route Score (S_{sw})	7.38	15.10	54.46	228.01
Air Route Score (S_a)	0	67	0	4582
$S_{gw}^2 + S_{sw}^2 + S_a^2$			74.88	4938 10
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$			8.65	+80,827
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$			5.00	40.80

FIGURE 10
WORKSHEET FOR COMPUTING S_M

40.6 w/air release

INO111-06

Facility name: Mobil Oil Corp.

Location: 3821 Indianapolis Blvd. E. Chicago, IN

EPA Region: V

Person(s) in charge of the facility: James Co Co (219) 397-1950

3821 Indianapolis Blvd

E. Chicago, IN

Name of Reviewer: Richard Dagnall (FIT) Date: 11/19/86

General description of the facility:

(For example: landfill, surface impoundment, pile, container, types of hazardous substances, location of the facility, contamination route of major concern; types of information needed for rating, agency action, etc.)

Refinery sludges from past operations were placed in dewatering pits. The sludges were then placed in on-site landfills. The sludges contain high levels of heavy metals. Due to the sites location, there is no real route of concern.

Scores: $S_M = 1.53$ ($S_{gw} = 2.64$ $S_{sw} = 0.00$ $S_a = 0.00$)

$S_{FE} = 0.00$

$S_{DC} = 0.00$

FIGURE 1
HRS COVER SHEET

BILLING CODE 6560-50-C

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 (1) 2 3	2	2	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	(0) 1 2 3	1	0	3	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			7	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 (6) 7 8	1	6	8	
Total Waste Characteristics Score			24	26	
5 Targets					3.5
Ground Water Use	0 (1) 2 3	3	3	9	
Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			3	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			1512	57,330	
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 2.64		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4 If observed release is given a value of 0, proceed to line 2					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1		3	
1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score			0	15	
3 Containment	0 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1		18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3		9	
Distance to a Sensitive Environment	0 1 2 3	2		6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40	
Total Targets Score			0	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0.00	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} = 0.00			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max Score	Ref. (Section)
[1] Observed Release	0 45	1	0	45	S 1
Date and Location					
Sampling Protocol.					
If line [1] is 0, the S_a = 0. Enter on line [5] If line [1] is 45, then proceed to line [2]					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score		0	20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score		0	39	
[4] Multiply [1] x [2] x [3]			0,00	35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S_a = 0.00			

FIGURE 9
AIR ROUTE WORK SHEET

BILLING CODE 6560-50-C

four-mile radius as well as transients such as workers in factories, officers, restaurants, motels, or students. It excludes travelers passing through the area. If aerial photography is used in making the count, assume 3.8 individuals per dwelling unit. Select the highest value for this rating factor as follows:

DISTANCE TO POPULATION FROM HAZARDOUS SUBSTANCE

Population	0-¼ mile	¼-½ mile	½-1 mile	1-2 miles
0	0	0	0	0
1 to 100	9	12	15	18
101 to 1,000	12	15	18	21
1,001 to 3,200	15	18	21	24
3,201 to 10,000	18	21	24	27
More than 10,000	21	24	27	30

Distance to sensitive environment is an indicator of the likelihood that a region that contains important biological resources or that is a fragile natural setting would suffer serious damage if hazardous substances were to be released from the facility. Assign a value from Table 10.

Land use indicates the nature and level of human activity in the vicinity of a facility. Assign highest applicable value from Table 11.

8.0 Computing the Migration Hazard Mode Score, S_m

To compute S_m complete the work sheet (Figure 10) using the values of S_{gw}, S_{sw}, and S_a obtained from the previous sections.

9.0 Fire and Explosion

Compute a score for the fire and explosion hazard mode, S_{fe}, when either a state or local fire marshall has certified that the facility presents a significant fire or explosion threat to the public or to sensitive environments or there is a demonstrated fire and explosion threat based on field observations (e.g., combustible gas indicator readings). Document the threat.

9.1 Containment. Containment is an indicator of the measures that have been taken to minimize or prevent hazardous substances at the facility from catching fire or exploding. Normally it will be given a value of 3 on the work sheet (Figure 11). If no hazardous substances that are individually ignitable or explosive are present and those that may be hazardous in combination are segregated and isolated so that they cannot come together to form incompatible mixtures, assign this factor a value of 1.

9.2 Waste Characteristics. Direct evidence of ignitability or explosion potential may exist in the form of measurements with appropriate instruments. If so, assign this factor a value of 3; if not, assign a value of 0.

TABLE 13.—VALUES FOR LAND USE (AIR ROUTE)

Assigned value →	0	1	2	3
Distance to Commercial-Industrial	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile
Distance to National/State Parks, Forests, Wildlife Reserves, and Residential Areas	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile
Distance to Agricultural Lands (in Production within 5 years)				
Ag land	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile
Prime Ag Land [1]	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile
Distance to Historic/Landmark Sites (National Register of Historic Places and National Natural Landmarks)				Within view of site or site is subject to significant deposits

[1] Defined in the Code of Federal Regulations, 7 CFR 657.5, 1981.

	S	S^2
Groundwater Route Score (S_{gw})	2.64	6.97
Surface Water Route Score (S_{sw})	0.00	0.00
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		6.97
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		2.64
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		1.53

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1	N/A	3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score			0	20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score			0	24	
4 Multiply 1 x 2 x 3			0,00	1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = 0.00			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max Score	Ref. (Section)
[1] Observed Incident	0 45	1	0.00	45	8.1
If line [1] is 45, proceed to line [4] If line [1] is 0, proceed to line [2]					
[2] Accessibility	0 1 2 3	1	0.00	3	8.2
[3] Containment	0 15	1	0.00	15	8.3
[4] Waste Characteristics Toxicity	0 1 2 3	5	0.00	15	8.4
[5] Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4		20	
Distance to a Critical Habitat	0 1 2 3	4		12	
Total Targets Score			0.00	32	
[6] If line [1] is 45, multiply [1] x [4] x [5] If line [1] is 0, multiply [2] x [3] x [4] x [5]			0.00	21,600	
[7] Divide line [6] by 21,600 and multiply by 100		S_{DC} = 0.00			

FIGURE 12
DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Mobil Oil Corp.

LOCATION: 3821 Indianapolis Blvd E. Chicago, IN

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

None

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:
There are three aquifers in Lake County. The aquifers are seperated by two continuous confining layers [Ref#2, p.1]. The one well within 3 miles of the site uses the bedrock aquifer [Ref #3, p.2]. This aquifer is in dolomite of the Silurian Age [Ref#2, p.1] and is about 100 feet thick [Ref #2, p.10]. While the confining layer does leak, it is of a significantly lower permeability than the aquifers it seperates, and is considered a confining layer.
Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

The bedrock is encountered at 107 ft. at the site [Ref#2, map].

$\frac{2}{6} = \frac{x}{20}$ $x = 6.66$ ft $100 + 7 = 107$

Depth from the ground surface to the lowest point of waste disposal/ storage:

The sludge pits were 20 ft. deep [Ref#4, p.1].

Score=1 [Ref#1, 47FR31224

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

36 inches [Ref#1, 47FR31224]
mean annual value

Mean annual lake or seasonal evaporation (list months for seasonal):

30 inches [Ref#1, 47FR31224]
mean annual value

Net precipitation (subtract the above figures):

6 inches Score = 2 [Ref#1, 47FR31224]

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

clay till [Ref. #2, p. 1]

Permeability associated with soil type:

clay till $< 10^{-7}$ cm/sec Score = 0
[Ref. #1, 47FR31224]

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Sludge [Ref#4, p.2].

Score = 3 [Ref#1, 47FR31229]

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

The waste was contained in unlined lagoons and placed in an unlined landfill [Ref #4, p. 2-3].

Method with highest score:

Unlined lagoon

Score = 3 [Ref #1, 47FR31224]

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:	Toxicity [Ref #5]	Persistence [Ref #1, 47FR31229]	Score
Arsenic [Ref #12, p 6-8]	3 p 316	3	18
lead [Ref #12, p 6-8]	3 p. 1684	3	18
Toluene [Ref #13, p 17, 21, 25]	2 p. 2588	1	9

Compound with highest score:

lead

Score = 18 [Ref #1, 47FR31229]

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

38,000 cu. ft. $\div 27 \frac{\text{cu ft}}{\text{cu. yd}}$ = 1,407 cu. yd.

[Ref #6]

Score = 6 [Ref #1, 47FR31229]

Basis of estimating and/or computing waste quantity:

103(c) form completed by company representatives. [Ref #6].

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

The only well, that can be shown to still be in use, is used for industrial purposes only [Ref #3, p.1].

Score = 1 [Ref#1, 4731230]

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

The only well still in use is located at

Thatcher Engineering Corp
7100 Industrial Highway
Gary, Indiana

[Ref. #3]

Distance to above well or building:

2.8 miles

[Ref#7]

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

There are no known drinking water wells found within 3 miles of the site. The entire area is served by surface water [Ref. # 8, p. 95][Ref#9].

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

The area within the 3-mile radius is completely urbanized. There is no irrigation in this area [Ref.#7].

Total population served by ground water within a 3-mile radius:

zero

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

The landfills are covered and do not extend above ground level. The slope of the landfills are 0% and preclude runoff [Ref #10]. This results in a containment score of zero [Ref #1, 47FR 31236]. The surface impoundments have adequate freeboard [Ref #10]. This gives them a containment value of zero [Ref #1, 47 FR 31236]. The entire site is bermed [Ref #10] also precluding a surface route [Ref #1, 47FR31236].

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

N/A

Name/description of nearest downslope surface water:

N/A

Average slope of terrain between facility and above-cited surface water body in percent:

N/A

Is the facility located either totally or partially in surface water?

N/A

Is the facility completely surrounded by areas of higher elevation?

N/A

1-Year 24-Hour Rainfall in Inches

N/A

Distance to Nearest Downslope Surface Water

N/A

Physical State of Waste

N/A

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

N/A

Method with highest score:

N/A

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

N/A

Compound with highest score:

N/A

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

N/A

Basis of estimating and/or computing waste quantity:

N/A

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

N/A

Is there tidal influence?

N/A

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

N/A

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

N/A

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

N/A

Total population served:

N/A

Name/description of nearest of above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles.

N/A

1 OBSERVED RELEASE

Contaminants detected:

There is no documented air release from the site.

Date and location of detection of contaminants

N/A

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

N/A

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

N/A

Most incompatible pair of compounds:

N/A

Toxicity

Most toxic compound:

N/A

Hazardous Waste Quantity

Total quantity of hazardous waste:

N/A

Basis of estimating and/or computing waste quantity:

N/A

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

N/A

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Distance to critical habitat of an endangered species, if 1 mile or less:

N/A

Land Use

Distance to commercial/industrial area, if 1 mile or less:

N/A

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

N/A

Distance to residential area, if 2 miles or less:

N/A

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

N/A

1 CONTAINMENT

Hazardous substances present:

There is no imminent hazard posed by the site [Ref #11].

Type of containment, if applicable:

N/A

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

N/A

Ignitability

Compound used:

N/A

Reactivity

Most reactive compound:

N/A

Incompatibility

Most incompatible pair of compounds:

N/A

* * *

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

N/A

Basis of estimating and/or computing waste quantity:

N/A

* * *

3 TARGETS

Distance to Nearest Population

N/A

Distance to Nearest Building

N/A

Distance to Sensitive Environment

Distance to wetlands:

N/A

Distance to critical habitat:

N/A

Land Use

Distance to commercial/industrial area, if 1 mile or less:

N/A

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

N/A

Distance to residential area, if 2 miles or less:

N/A

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

N/A

Population Within 2-Mile Radius

N/A

Buildings Within 2-Mile Radius

N/A

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

The site is completely enclosed by a 6 foot high fence topped with barbed wire [Ref #4 p.3]

* * *

3 CONTAINMENT

Type of containment, if applicable:

N/A

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

N/A

Compound with highest score:

N/A

* * *

5 TARGETS

Population within one-mile radius

N/A

Distance to critical habitat (of endangered species)

N/A

HRS DOCUMENTATION LOG SHEET

SITE NAME Mobil Oil Corp
CITY E. Chicago STATE IN
IDENTIFICATION NUMBER IND 042329631

REFERENCE NUMBER	DESCRIPTION OF THE REFERENCE
1.	Federal Register, July 16, 1982
2.	Indiana DNR, Division of Water - Bulletin No. 31, Geohydrology and Ground Water Potential of Lake County 1968 6pp
3.	Letter from Gerald P. Egan, Thatcher Engineering Corp., to Mark Lunsford, E&E, June 11, 1985 4pp
4.	Cover memo to SI Report from Larry Lumeh, E&E, to File October 27, 1986 (Revised) 3pp
5	Sax, I. J. Dangerous Properties of Industrial Materials, 6th ed 1984
6.	103(c) Form Notification of Hazardous Waste 6/8/81 completed by Gerald Sweet, terminal Superintendent 2pp
7.	U.S.G.S topographic map 7.5 min series Lake Calumet, Whiting, Calumet City, and Highland Quads 1980

HRS DOCUMENTATION LOG SHEET

SITE NAME Mobil Oil Corp
CITY E. Chicago STATE IN
IDENTIFICATION NUMBER IND042329631

REFERENCE NUMBER	DESCRIPTION OF THE REFERENCE
1.	Federal Register, July 16, 1982
2.	Indiana DNR, Division of Water - Bulletin No. 31, Geohydrology and Ground Water Potential of Lake County 1968 6pp
3.	Letter from Gerald P. Egan, Thatcher Engineering Corp., to Mark Lunsford, E&E, June 11, 1985 4pp
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8	The 1981 Survey of Public Water Supply Service Areas in Indiana 3pp
9.	Data on Indiana Public Water Supplies Revised 1984 Indiana State Board of Health 5pp
10.	Memo to File From Larry Lumeh, of E+E, 10/30/86 Subject: Surface Water Route 1p
11.	Phone Log: Richard Dagnall, of E+E, called Inspector Ricciardi, of E. Chicago, at 2:40 pm on 10/30/86 (219) 397-2780 1p
12	Analytical Results, samples taken by FIT April 14, 1986 Analysed by Rocky Mountain Analytical 13 pp inorganic soils
13	Analytical Results, samples taken by FIT April 14, 1986 Analysed by Analytical Resources Inc 33pp organic soils

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